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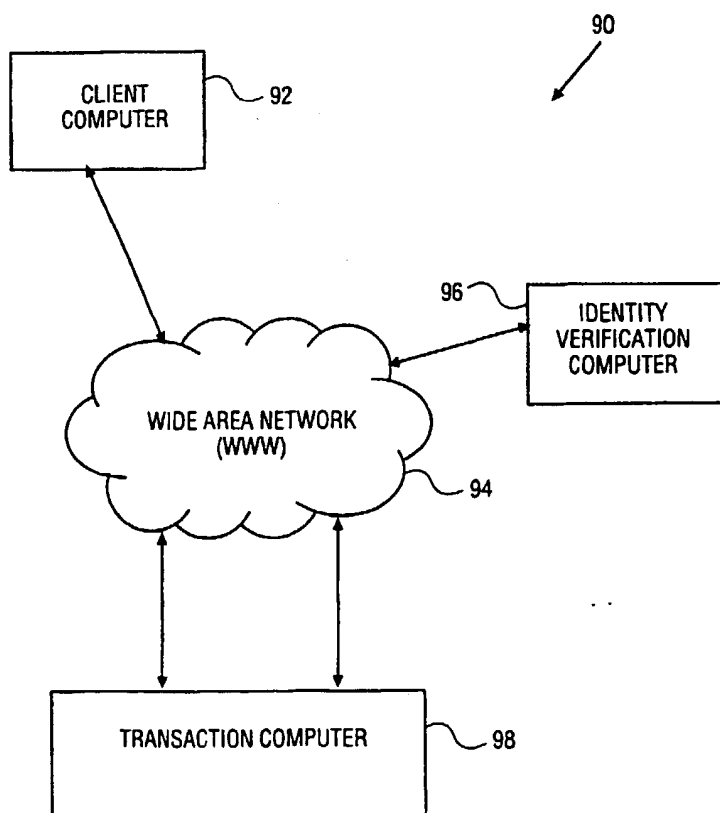
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[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR VERIFYING THE IDENTITY OF A PARTICIPANT WITHIN AN ON-LINE AUCTION ENVIRONMENT



(57) Abstract: A method and apparatus for verifying identity of a user (32, 92) in a network (34, 94) based transaction facility (98) are described. The interface information (fig. 8) is sent to a user by a network (34, 94). The interface information has an identity verification interface (fig. 9) for obtaining personal information of the user (32, 92). The personal information of the user is sent to a third party (26, 96) for verification by the network (34, 94). The verification result (fig. 10) is then sent to the user (32, 92) by the network (34, 94).

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METHOD AND APPARATUS FOR VERIFYING THE IDENTITY OF A PARTICIPANT WITHIN AN ON-LINE AUCTION ENVIRONMENT

FIELD OF THE INVENTION

The present invention relates generally to the field of e-commerce and, more specifically, to verifying the identity of a participant within a network-based transaction facility such as, for example, an Internet-based auction facility.

BACKGROUND OF THE INVENTION

For users of a network-based transaction facility, such as an Internet-based auction facility, verification of user identity is particularly important for enhancing user trust in the transaction facility. Indeed, an assurance that a trader is who he or she claims to be or that a trader has the capacity (e.g. is at least 18 years old) to enter into a transaction may be particularly valuable and useful in providing other traders with a degree of confidence regarding that specific trader. Accordingly, an indication to other traders that the identity of a particular trader is verified by a reliable source may establish the credibility and trustworthiness of this trader within an on-line trading community. Similarly, the absence of such verification may discourage other traders from transacting with this specific trader.

Therefore, it will be advantageous to provide traders with an opportunity to have their identity verified by a reliable source in real time and to make the verification result available to all other traders.

SUMMARY OF THE INVENTION

A method and apparatus for verifying identity of a participant in a network-based transaction facility are described. According to one embodiment, user interface information is provided to the participant via a communications network. The user interface information specifies an identity verification interface for obtaining personal information of the participant. The personal information of the participant is passed to a third party for verification via the communications network. Subsequently, a verification result is received from the third party via the communications network. The verification result is then communicated to the participant via the communications network.

BRIEF DESCRIPTION OF THE DRAWINGS

The present invention is illustrated by way of example and not limitation in the figures of the accompanying drawings, in which like references indicate similar elements and in which:

Figure 1 is a block diagram of one embodiment of a network-based transaction facility;

Figure 2 is a block diagram of one embodiment of a database maintained by a database engine server;

Figure 3 is a diagrammatic representation of one embodiment of a user table within the database;

Figure 4 is a diagrammatic representation of one embodiment of a user information table within the database;

Figure 5 is a block diagram of one embodiment of a system for verifying the identity of a participant in a transaction facility;

Figure 6 is a block diagram of one embodiment of an interface sequence implemented to verify the identity of a participant;

Figure 7A is a flow chart of one embodiment for a method of verifying identity of a participant in a network-based transaction facility;

Figure 7B is a flow chart of one embodiment for a method of displaying a user interface to verify identity of a participant in a computerized transaction facility;

Figures 8 – 11 are exemplary representations of various interfaces included in the sequence of interfaces shown in **Figure 6**;

Figure 12 illustrates one embodiment of a collection of objects that generate the various interfaces shown in **Figures 8 - 11**; and

Figure 13 is a block diagram of one embodiment of a computer system.

DETAILED DESCRIPTION

A method and apparatus for verifying the identity of a participant in a network-based transaction facility are described. In the following description, for purposes of explanation, numerous specific details are set forth in order to provide a thorough understanding of the present invention. It will be evident, however, to one skilled in the

art that the present invention may be practiced without these specific details.

Terminology

For the purposes of the present specification, the term "transaction" shall be taken to include any communications between two or more entities and shall be construed to include, but not be limited to, commercial transactions including sale and purchase transactions, auctions and the like.

Transaction Facility

Figure 1 is a block diagram illustrating an exemplary network-based transaction facility in the form of an Internet-based auction facility 10. While an exemplary embodiment of the present invention is described within the context of an auction facility, it will be appreciated by those skilled in the art that the invention will find application in many different types of computer-based, and network-based, commerce facilities.

The auction facility 10 includes one or more of a number of types of front-end servers, namely page servers 12 that deliver web pages (e.g., markup language documents), picture servers 14 that dynamically deliver images to be displayed within Web pages, listing servers 16, CGI servers 18 that provide an intelligent interface to the back-end of facility 10, and search servers 20 that handle search requests to the facility 10. E-mail servers 21 provide, *inter alia*, automated e-mail communications to users of the facility 10.

The back-end servers include a database engine server 22, a search index server 24 and a credit card database server 26, each of which maintains and facilitates access to a respective database.

The Internet-based auction facility 10 may be accessed by a client program 30, such as a browser (e.g., the Internet Explorer distributed by Microsoft Corp. of Redmond, Washington) that executes on a client machine 32 and accesses the facility 10 via a network such as, for example, the Internet 34. Other examples of networks that a client may utilize to access the auction facility 10 include a wide area network (WAN), a local area network (LAN), a wireless network (e.g., a cellular network), or the Plain Old Telephone Service (POTS) network.

Database Structure

Figure 2 is a database diagram illustrating an exemplary database 23, maintained by and accessed via the database engine server 22, which at least partially implements and supports the auction facility 10. The database 23 may, in one embodiment, be implemented as a relational database, and includes a number of tables having entries, or records, that are linked by indices and keys. In an alternative embodiment, the database 23 may be implemented as collection of objects in an object-oriented database.

Central to the database 23 is a user table 40, which contains a record for each user of the auction facility 10. A user may operate as a seller, buyer, or both, within the auction facility 10. A user information table 41 is linked to the user table 40 and includes more detailed information about each user. The database 23 also includes item tables 42 that may be linked to the user table 40. Specifically, the tables 42 include a seller items table 44 and a bidder items table 46. A user record in the user table 40 may be linked to multiple items that are being, or have been, auctioned via the facility 10. A link indicates whether the user is a seller or a bidder (or buyer) with respect to items for which records exist within the item tables 42. The database 23 also includes a note table 48 populated with note records that may be linked to one or more item records within the item tables 42 and/or to one or more user records within the user table 40. Each note record within the table 48 may include, *inter alia*, a comment, description, history or other information pertaining to an item being auction via the auction facility 10, or to a user of the auction facility 10.

A number of other tables are also shown to be linked to the user table 40, namely a user past aliases table 50, a feedback table 52, a bids table 54, an accounts table 56, an account balances table 58 and a transaction record table 60.

Figure 3 is a diagrammatic representation of an exemplary embodiment of the user table 40 that is populated with records, or entries, for each user of the auction facility 10. The table 40 includes a user identifier column 62 that stores a **unique** identifier for each user. A name column 64 stores a first name, a middle initial and a last name for each user. An address column 66 stores full address information for each user, e.g. a street name and number, city, zip code, state, etc. A phone number column 68 stores a home phone number for each user. A verification status column 70 stores, for

each user, a value identifying the user's status associated with the verification process. That is, different values will be assigned to indicate whether a user passed the verification process, failed the verification process, has never participated in the verification process, has not yet paid a fee required for the verification process, etc.

It will be appreciated that any information other than that described above may populate the user table 40 without loss of generality.

Figure 4 is a diagrammatic representation of an exemplary embodiment of the user information table 41. The user information table 41 stores detailed information about each user participating in the action facility 10. The table 41 includes a user identifier column 72 that stores, for each entry, a user identifier providing a pointer to the user table 40. A name column 74 stores the full name of each user. A gender column 76 stores the gender of each user. An e-mail address column 78 stores each user's e-mail address. A verification attempts column 80 stores a number which indicates how many times a user participated in the verification process. A verification last modified column 82 stores the date of the most recent modification of the verification status. The verification status for each user is stored in column 70 of the user table 40.

It will be appreciated that other descriptive information may also populate the user information table 41.

Identity Verification Process

In order to increase the level of trust between participants of the auction facility 10, one embodiment of the present invention proposes a method and apparatus whereby a participant is provided with an opportunity to have his or her identity verified and the result of the identification process made available to other participants who wish to know this information. The present invention enables real-time, web-based verification of a participant's identity by a reliable source in one application process. While the present invention is discussed within the environment of the auction facility 10, it will readily be appreciated that the present invention may be extended to providing identity verification in other environments including network-based transaction facilities (e.g., business-to-business, business-to-consumer and consumer-to-consumer Internet marketplaces and retailers) and on-line communities.

Figure 5 is a block diagram of a system for verifying the identity of a participant.

according to an exemplary embodiment of the present invention, that may be implemented by the auction facility 10. In this embodiment, a client computer 92 is coupled to a transaction computer 98 via a communications network (e.g. a wide area network) 94. The client computer 92 represents a device that allows a user to participate in the auction facility 10 or any other transaction facility. In one embodiment, the client computer 92 presents to the user an identity verification interface for obtaining user personal information. When the client computer 92 receives the user personal information in the manner described below, the client computer 92 transfers this information to the transaction computer 98 over the network 94.

The transaction computer 98, which supports the auction facility 10, handles all transactions between various participants of the facility 10 including the user of the client computer 92. The transactions computer 98 is coupled to an identity verification computer 96 via the network 94. In one embodiment, the transactions computer 98 receives the personal information of the participant from the client computer 98 and transfers this information to the identity verification computer 96 over the network 94. In this embodiment, the identity verification computer 96 receives the personal information and performs an identity verification process based on the personal information and further questioning of the participant. Upon completion of the identity verification process, the identity verification computer 96 generates a verification result that is transferred back to the transaction computer 98 over the network 94.

The transaction computer 98 receives the verification result and makes it available, via the network 94, to those participants who wish to know this information. In one embodiment, the transaction computer 98 issues an identity verified icon, which is displayed with the participant's identification information.

Figure 6 shows an interface sequence 100, according to an exemplary embodiment of the present invention, that may be implemented by the auction facility 10 for the purposes of verifying the identity of a participant in the auction facility 10. The sequence 100 of interfaces shown in Figure 6 will be described with reference to exemplary representations of the various interfaces included with the sequence 100 are shown in Figures 8 - 11.

The interface sequence 100 commences with a login interface 102, through which a user of the facility 10 provides at least a user identifier and associated password. In

one embodiment, the login interface 102 may also provide information explaining the identity verification process and identifying a third party verifier. The user may also be requested to pay a fee for the verification process.

The interface 102, and subsequent interfaces 104 – 106, are generated by a collection of objects (or methods), exemplary embodiments of which are illustrated in **Figure 12**. Specifically, a login interface 102 is generated by a "UserChoosePayment" object 120. The object 120 may also be responsible for receiving the user's consent to pay a fee for the verification and for confirming that the user is allowed to be verified based on certain criteria. These criteria may include, for example, the user's age (e.g., 18 years or older), country of residence, a limit on the number of attempts to obtain a verification, limitations on using certain web technologies, the user's consent to refrain from modifying the user's personal information after obtaining the verification for a particular period of time (e.g., 30 days), etc.

Returning to **Figure 6**, the login interface 102 is followed by a preview user information interface 104. The preview user information interface 104 is generated based on the user's personal information stored in a database 110 (specifically, in the user table 40 and the user information table 41). As illustrated in **Figure 12**, the "UserChoosePayment" object 120, upon receiving all requested information, calls a "UserUpdateInfo" object 122 which accesses the database 110, retrieves the user's personal information, and displays it to the user. An exemplary representation of this interface is shown in **Figure 8**.

Referring to **Figure 8**, the interface 225 provides the user's first name 230, middle initial 232, last name 234 and suffix 236. In addition, the interface 225 provides the user's address 238, city 240, state 242, zip code 244, home phone 246 and gender 248. All the fields are editable and can be changed by the user if incorrect or outdated. After making necessary corrections, the user confirms the information using a confirm button 250.

Returning to **Figure 6**, a confirmation interface 105 is displayed to the user subsequent to the preview user information interface 104. The confirmation interface 105 displays the user's personal information (as modified by the user on the preview user information interface 104) to give the user a last chance to modify the personal information before submitting it to a third party verifier 108 according to one

embodiment of the present invention.

An exemplary representation of the confirmation interface 105 is shown in **Figure 9**. The confirmation interface 105 provides a continue button 266. By clicking the continue button 266, the user acknowledges that the personal information displayed in fields 230 – 264 will be submitted to the third party verifier 108 for the purpose of verifying the identity of the user.

Clicking the continue button 266 invokes a “UserPreview” object 124 shown in **Figure 12**. The “UserPreview” object 124 receives the user’s personal information and updates the corresponding data in tables 40 and 41 if the user modified any of his or her personal information. In addition, the “UserPreview” object 124 updates the user’s verification status field 70 in the user table 40 (e.g., changing the status to “pending”) and the verification attempts field 80 in the user information table 41 (e.g., increasing the number of attempts by 1). Further, the “UserPreview” object 124 generates an input set of data to be passed to the third party verifier 108. In one embodiment, the input set of data includes the user’s personal information from the confirmation interface 105 and a unique user identifier. The “UserPreview” object 124 is also responsible for encrypting the input set of data for security purposes.

In one embodiment, the third party verifier 108 receives the above encrypted information over a network. Alternatively, the user may decide to select a postal mailing verification system that allows the exchange of information between the user and the third party verifier 108 using a postal service.

If the user selects the online verification method, the third party verifier 108 (e.g., a consumer credit reporting company) displays to the user a list of questions which require knowledge of certain personal information that only the user possesses. Based on the accuracy of user online responses, the third party verifier 108 generates an output set of data which contains the unique user identifier, a verification result and a reason for the verification result. The third party verifier 108 then encrypts the output set of data. In one embodiment, the third party verifier 108 decides whether the user passed or failed the verification process. Alternatively, the auction facility 10 may make a final determination based on the output set of data provided by the third party verifier 108.

If the user chose the postal verification method, the third party verifier 108 receives user’s information by mail, analyzes it, and, upon completing the identity

verification process of the user, mails a personal identification number (PIN) to the user. The user may then enter the PIN on the requested web site of the third party verifier 108. Once the PIN is entered correctly, the third party verifier 108 passes the encrypted set of data to the auction facility 10 over the network.

When the output set of data is received by the auction facility 10, a "UserScore" object 126 decrypts the output set of data, checks the verification status information in the user table 40 to confirm that the user is currently participating in the verification process (i.e., the user's verification status is pending), and generates a verification result interface 300. The "UserScore" object 126 also updates the user's verification status in the user table 40 based on the verification result. The "UserScore" object 126 is further responsible for applying a fee for the verification process to the user's account if the user successfully passed the verification process.

The verification result interface 300 displays either a congratulatory (or confirmation) text or a denial text. An exemplary representation of the verification result interface 300 with a congratulatory text is shown in **Figure 10**.

Upon successful completion of the verification process, an icon appears next to the user identification information. In one embodiment, the icon appears in the user's feedback profile. **Figure 11** is an exemplary representation of a feedback profile interface 350. An "ID Verify" icon 352 is displayed with a user identifier 354 and a summary of most recent comments associated with the user. The icon 352 signifies to any participant of the auction facility 10, who requested feedback profile information about this user, that the user participated in the verification process and successfully passed it.

A method of verifying identity of a participant in a network-based transaction facility, such as the auction facility 10, will now be described as illustrated by the flow chart indicated in **Figure 7A**. The method 700 commences with communicating user interface information to a participant of the transaction facility. Specifically, the user interface information provides a login interface 102, described above with reference to **Figure 6**, which includes a user identifier field and password field into which a user may enter a user identifier and password to enable the login confirmation operation. In one embodiment, the login interface 102 may also require the participant's consent to being charged a certain fee for verifying his or her identity.

Subsequent to the login confirmation by the user, the user is provided with an identity verification interface for obtaining his or her personal information. In one embodiment, the personal information includes participant's contact information.

In one embodiment, the identity verification interface consists of two components: a preview user information interface 104 and a confirmation interface 105. The preview user information interface 104 illustrated in **Figure 8** provides personal information of the user that is currently stored in the user table 40 and the user information table 41. The user may update this information if it is inaccurate. The confirmation interface 105 illustrated in **Figure 9** urges the user to make additional changes if needed and to acknowledge that the personal information is correct and can be forwarded to a third party verifier.

At block 730, the personal information of the participant is passed to the third party verifier 108 via a communications network. In one embodiment, the personal information is passed using a Hypertext Transfer Protocol (HTTP) Post. As described above, the personal information is transferred in a particular format and in an encrypted form. The third party verifier 108 receives the personal information and proceeds with further questioning of the participant about financial and non-financial information that is known only to the participant. The questioning by the third party verifier 108 is integrated into the verification process initiated by the transaction facility such as the auction facility 10.

At block 740, a verification result is received from the third party verifier 108 via the communications network. In one embodiment, the verification result is received using the HTTP Post. As described above with respect to **Figure 12**, the verification result is transferred in a particular format and in an encrypted form. In one embodiment, the "UserScore" object 126 decrypts the output set of data, checks the verification status information in the user table 40 to confirm that the user is currently participating in the verification process, and applies a fee for the verification process to the user's account if the user successfully passed the verification process. In addition, the "UserScore" object 126 updates the user's verification status in the user table 40 based on the verification result. In one embodiment, the third party verifier 108 determines whether the participant passed or failed the identity verification process. Alternatively, the transaction facility makes the final determination based on the information provided by

the third party verifier 108.

At block 750, the verification result is communicated to the participant via the communications network. The verification result may include either congratulatory information or denial information. An exemplary verification result interface 300 with the congratulatory information is illustrated in **Figure 10**. In one embodiment, upon receiving a denial result, the participant may be given an option to participate in a manual verification process. The manual verification process enables the participant to dispute the accuracy or completeness of information on which the verification process was based. In this embodiment, the participant is provided with a decline screen which serves as a fax cover sheet for the participant and includes a pre-printed personal identification number of the participant, the fax number of the third party verifier 108 and instructions as to the information that should be faxed to the third party verifier 108.

A method of displaying a user interface to verify identity of a participant in a computerized transaction facility, such as the auction facility 10, will now be described as illustrated by the flow chart indicated in **Figure 7B**. The method 765 commences with displaying identification information of the participant as shown at box 772. The identification information of the participant is displayed upon a request of another participant in the transaction facility. For example, a trader may request identification information of another trader before deciding whether to enter a transaction with the other trader. In one embodiment, the identification information may include a user identifier of the participant and feedback information associated with the participant.

At box 730, a verification icon is displayed with identification information of the participant. The verification icon indicates to others that the identity of this participant has been verified by a third party verifier. In one embodiment, the verification by the third party verifier is performed using an online verification process. Alternatively, the verification is performed using a postal mailing verification process. Both processes are described in more detail above.

Figure 11 illustrates an exemplary user interface 350 which displays a user identifier 354, a verification icon 352 and a feedback profile of the participant. In one embodiment (not shown), the verification icon 352 identifies a source of verification (e.g., a certain consumer credit reporting company) and a type of verification (e.g., based on financial information, non-financial information, etc.). The verification icon may

expire upon a predetermined period of time and may be removed upon changing personal information by the participant.

In summary, it will be appreciated that the above described interfaces, and underlying technologies, provide a convenient vehicle for verifying the identity of a participant in a transaction facility using a seamlessly integrated, real-time process and for making a verification result readily available to other participants.

Figure 13 shows a diagrammatic representation of machine in the exemplary form of a computer system 300 within which a set of instructions, for causing the machine to perform any one of the methodologies discussed above, may be executed. In alternative embodiments, the machine may comprise a network router, a network switch, a network bridge, Personal Digital Assistant (PDA), a cellular telephone, a web appliance or any machine capable of executing a sequence of instructions that specify actions to be taken by that machine.

The computer system 300 includes a processor 302, a main memory 304 and a static memory 306, which communicate with each other via a bus 308. The computer system 300 may further include a video display unit 310 (e.g., a liquid crystal display (LCD) or a cathode ray tube (CRT)). The computer system 300 also includes an alphanumeric input device 312 (e.g., a keyboard), a cursor control device 314 (e.g., a mouse), a disk drive unit 316, a signal generation device 320 (e.g., a speaker) and a network interface device 322,

The disk drive unit 316 includes a computer-readable medium 324 on which is stored a set of instructions (i.e., software) 326 embodying any one, or all, of the methodologies described above. The software 326 is also shown to reside, completely or at least partially, within the main memory 304 and/or within the processor 302. The software 326 may further be transmitted or received via the network interface device 322. For the purposes of this specification, the term "computer-readable medium" shall be taken to include any medium that is capable of storing or encoding a sequence of instructions for execution by the computer and that cause the computer to perform any one of the methodologies of the present invention. The term "computer-readable medium" shall accordingly be taken to include, but not be limited to, solid-state memories, optical and magnetic disks, and carrier wave signals.

Thus, a method and apparatus for verifying the identity of a participant in a

network-based transaction facility have been described. Although the present invention has been described with reference to specific exemplary embodiments, it will be evident that various modifications and changes may be made to these embodiments without departing from the broader spirit and scope of the invention. Accordingly, the specification and drawings are to be regarded in an illustrative rather than a restrictive sense.

CLAIMS

What is claimed is:

1. A method for verifying identity of a participant in a network-based transaction facility, the method comprising:
 - providing user interface information to the participant via a communications network, the user interface information specifying an identity verification interface for obtaining personal information of the participant;
 - passing the personal information of the participant to a third party for verification, the personal information being passed to the third party via the communications network;
 - receiving a verification result from the third party via the communications network; and
 - communicating the verification result to the participant via the communications network.
2. The method of claim 1 wherein the personal information is passed to the third party upon obtaining consent from the participant.
3. The method of claim 1 wherein the personal information is passed in an encrypted form.
4. The method of claim 1 further comprising charging a fee for verifying the identity of the participant.
5. The method of claim 1 wherein the identity verification interface communicates to the participant current personal information of the participant, enables the participant to modify the current personal information, and facilitates confirmation by the participant that the current personal information is correct.
6. The method of claim 1 wherein the personal information includes contact information of the participant.

7. The method of claim 1 wherein communicating the verification result includes communicating either confirmation information or denial information to the participant.
8. A method of displaying a user interface to verify identity of a participant in a computerized transaction facility, the method comprising:
 - displaying identification information of the participant; and
 - displaying a verification icon with the identification information, the verification icon indicating that the identity of the participant has been verified by a third party.
9. The method of claim 8 wherein the verification icon identifies a source and type of verification.
10. The method of claim 8 wherein the verification icon expires upon a predefined period of time.
11. The method of claim 8 wherein the third party verifies the identity of the participant based upon personal information of the participant.
12. The method of claim 11 further comprising removing the verification icon upon changing personal information by the participant.
13. The method of claim 11 wherein the third party receives the personal information via any one of a communications network and a postal mailing.
14. The method of claim 11 wherein the personal information includes contact information of the participant.
15. The method of claim 8 wherein the identification information includes a user identifier of the participant and feedback information associated with the participant.
16. A system for verifying identity of a participant in a network-based transaction facility, the system comprising:

a client computer to present user interface information specifying an identity verification interface for obtaining personal information of a user and to communicate personal information over a communications network;

a transaction computer, coupled to the client computer via a communications network, to implement a transaction system that facilitates transactions between the user and a further user, to receive the personal information from the client computer via the communications network, and to communicate the personal information over the communications network; and

an identity verification computer, coupled to the transaction computer via the communications network, to receive the personal information from the transaction computer via the communications network, to perform an identity verification process to generate a verification result, and to communicate the verification result to the transaction computer over the communications network,

wherein transaction computer makes the verification result available to the further user via the communications network and responsive to a request from the further user for information concerning the user.

17. A computer readable medium comprising instructions, which when executed on a processor, cause the processor to perform a method for verifying identity of a participant in a network-based transaction facility, the method comprising:

providing user interface information to the participant via a communications network, the user interface information specifying an identity verification interface for obtaining personal information of the participant;

passing the personal information of the participant to a third party for verification, the personal information being passed to the third party via the communications network;

receiving a verification result from the third party via the communications network; and

communicating the verification result to the participant via the communications network.

18. A computer readable medium comprising instructions, which when executed on a processor, cause the processor to perform a method for displaying a user interface to verify identity of a participant in a computerized transaction facility, the method comprising:

displaying identification information of the participant; and

displaying a verification icon with the identification information, the verification icon indicating that the identity of the participant has been verified by a third party.

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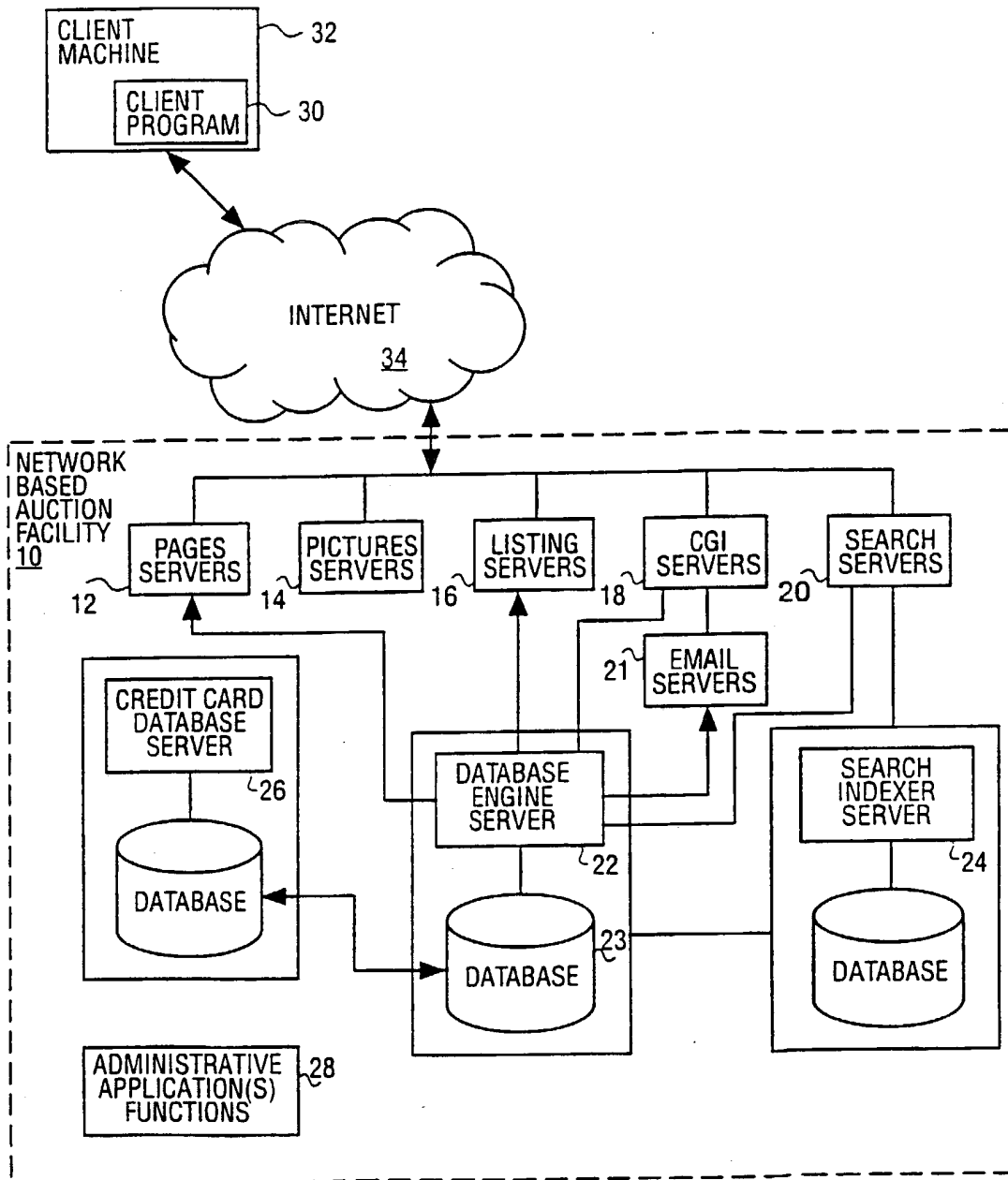
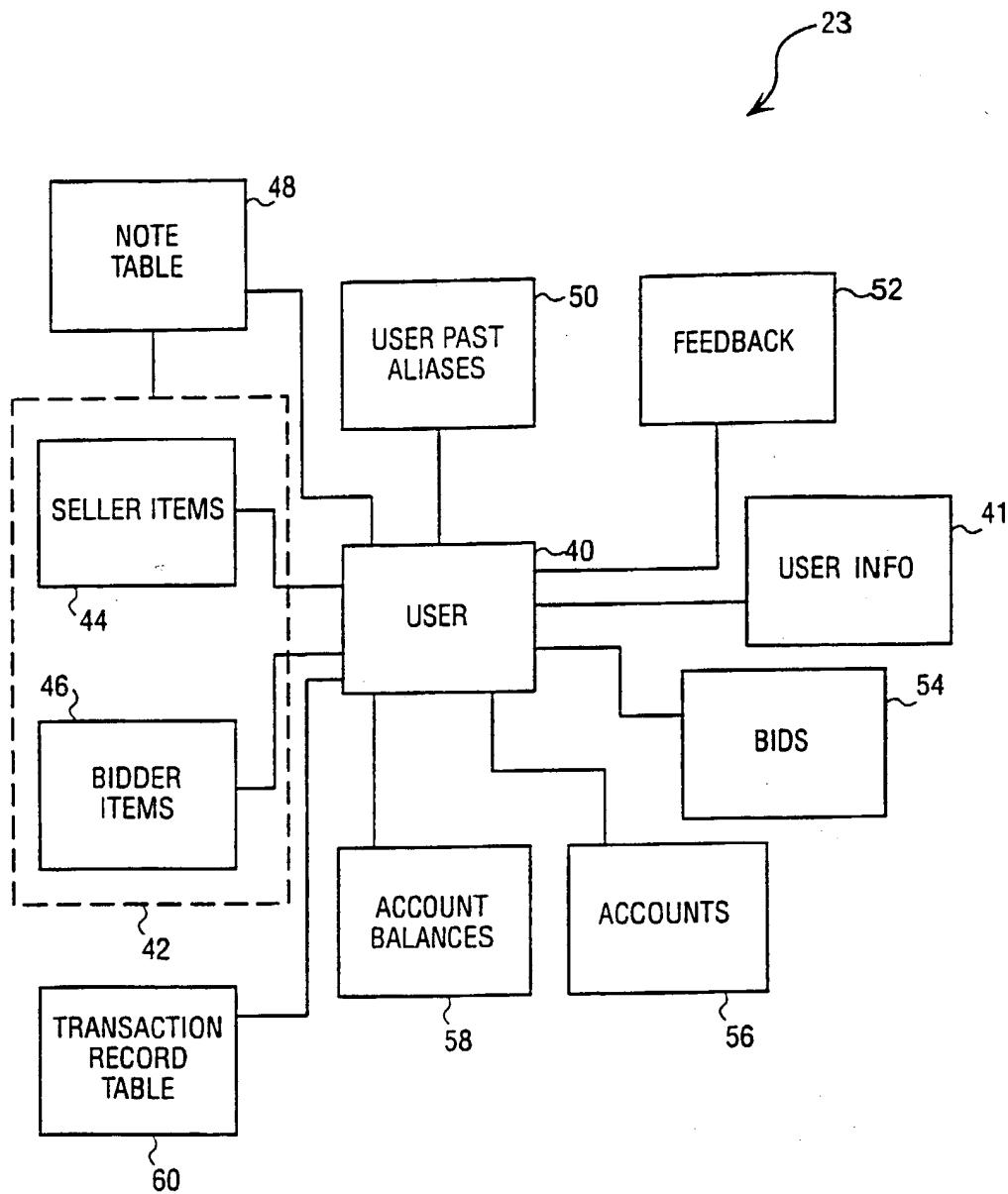


FIG. 1

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52

USER TABLE				
USER ID	NAME	ADDRESS	PHONE#	VERIFICATION STATUS
~	~	~	~	~

62 64 66 68 70

FIG. 3

53

USER_INFO TABLE					
USER ID	NAME	GENDER	E-MAIL ADDRESS	VERIFICATION ATTEMPTS	VERIFICATION LAST MODIFIED
~	~	~	~	~	~

72 74 76 78 80 82

FIG. 4

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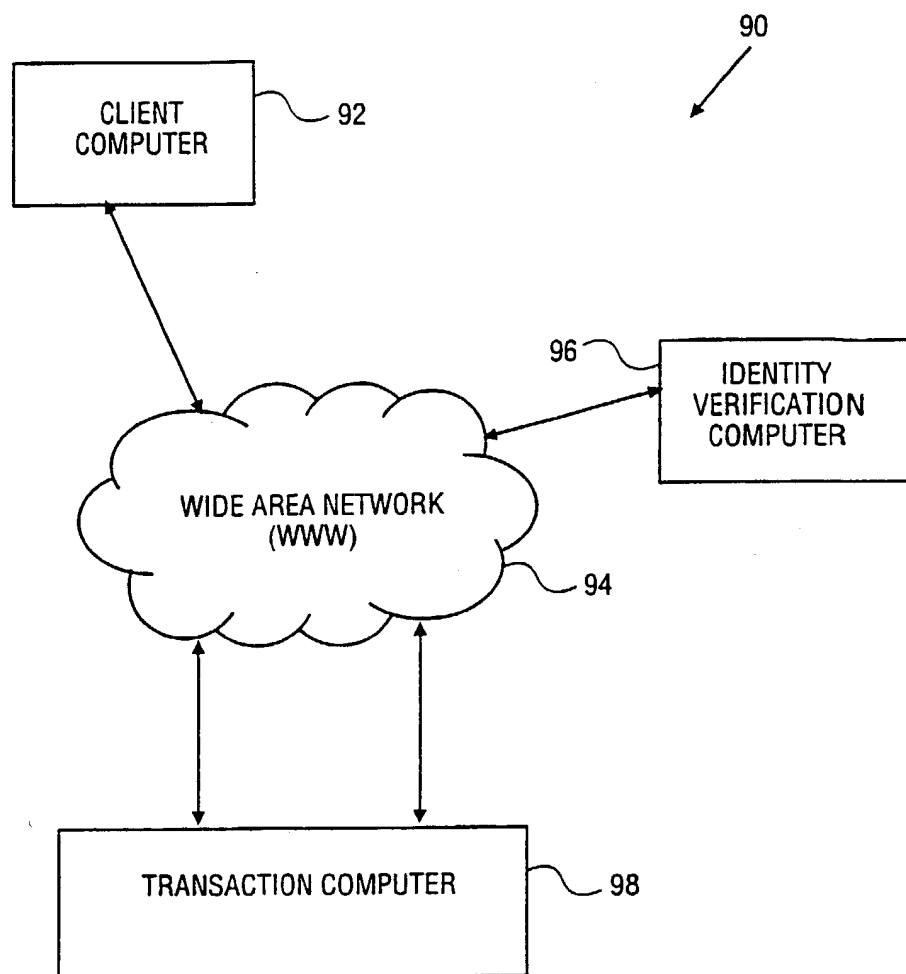


FIG. 5

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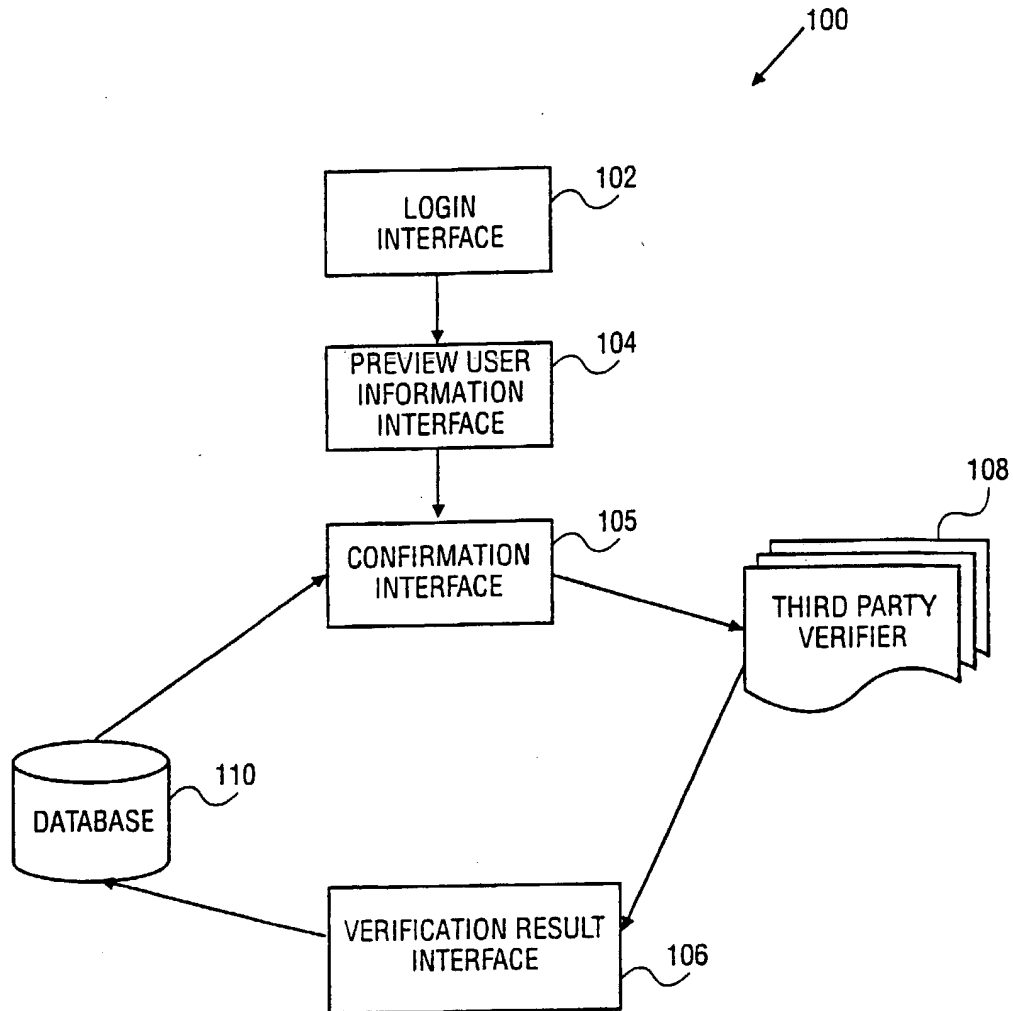


FIG. 6

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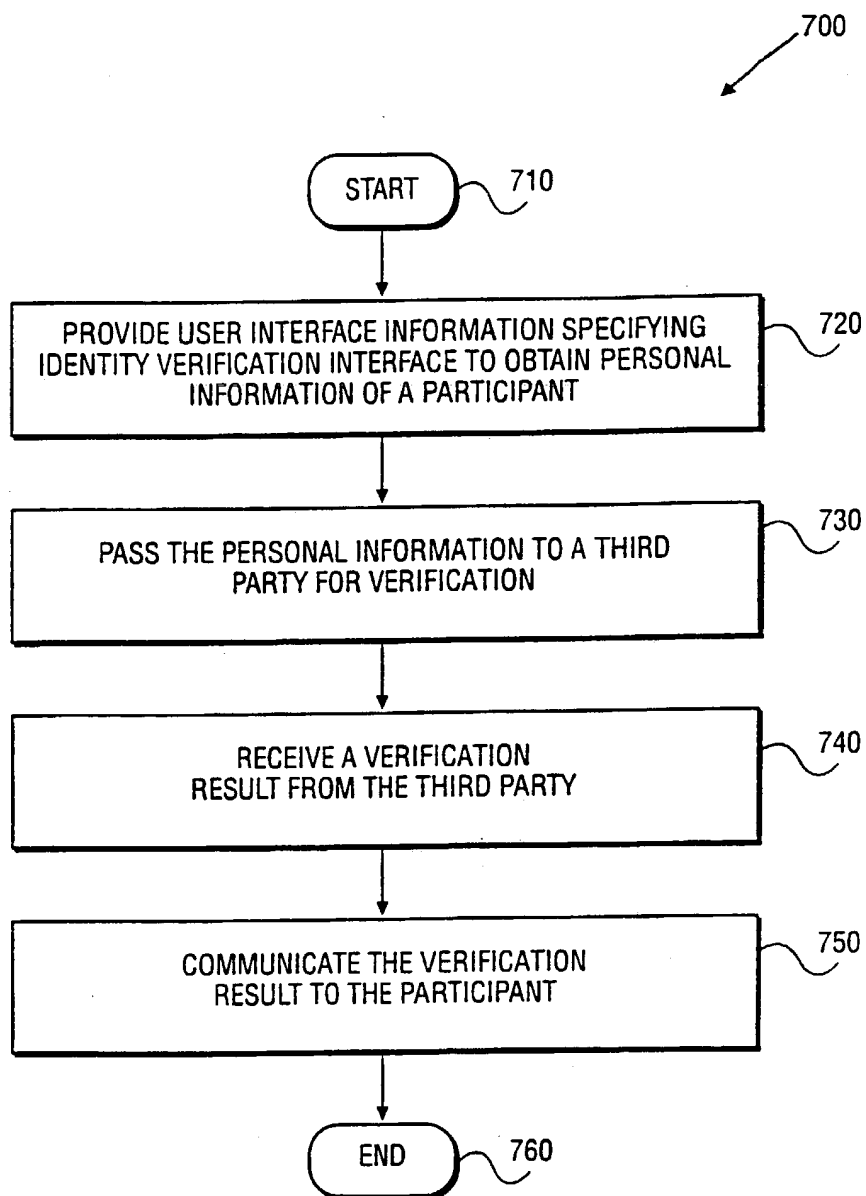


FIG. 7A

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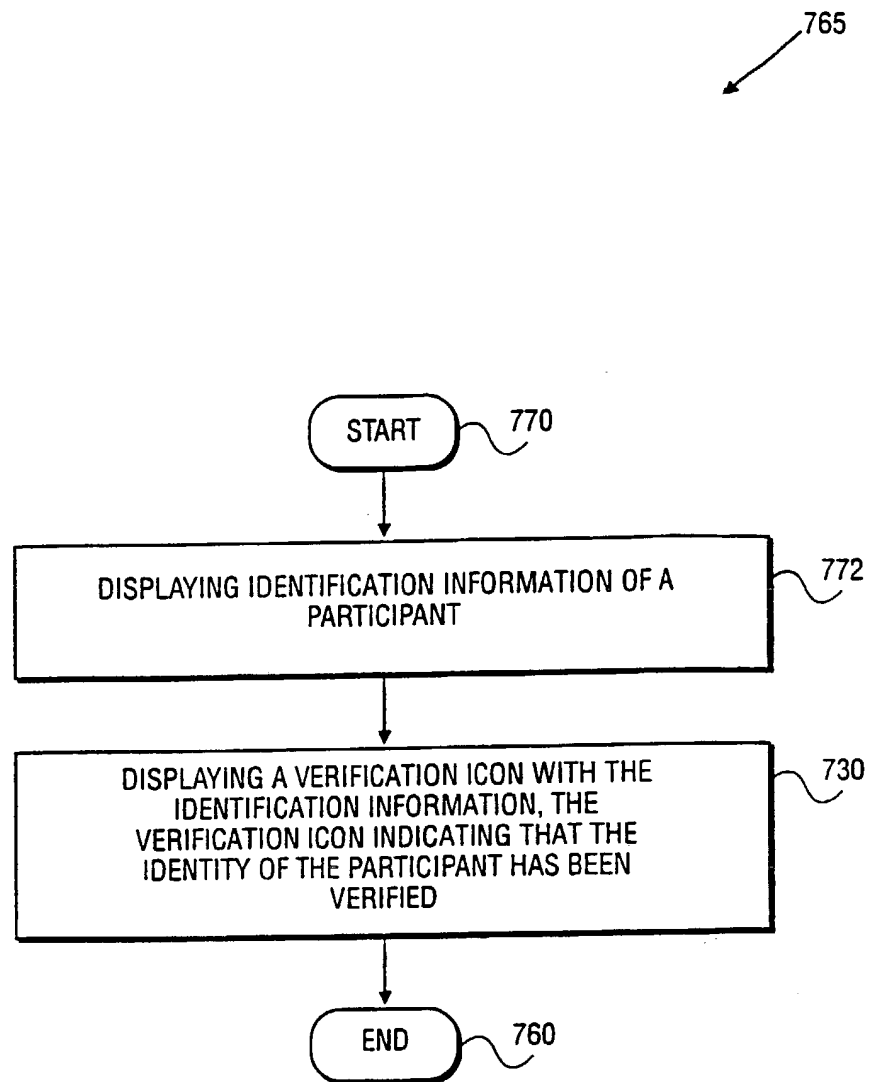


FIG. 7B

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☒ ID Verify 225

(Update information)
Before you begin the verification process, please make sure your contact information is accurate.
Remember that once your information has been verified, you will not be able to modify your contact information for the next 30 days.

Please review the following information, and make any necessary corrections. These updates will automatically be made to your contact information.

230

232	First name	<input type="text"/>	(required)
234	Middle initial	<input type="text"/>	
236	Last name	<input type="text"/>	(required)
238	Suffix	<input type="text"/>	
240	Address	<input type="text"/>	(required)
242	City	<input type="text"/>	(required)
244	State	<input type="text"/>	(required)
246	Zip code	<input type="text"/>	(required)
248	Home Phone #	<input type="text"/>	(required)
		Be sure to specify a home # that matches the above address	
	Gender	<input type="text" value="Unspecified"/>	

250

to proceed to the next step.

FIG. 8

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☒ ID Verify

(Review information)
The following information will be verified.

If "OK" is not in the right-hand column, check your information for accuracy before proceeding. You can correct any information by using the "Back" button on your browser and modifying your information on the previous page.

Full Name		OK
Address		OK
City		
State		
Zip code		
Primary phone #		
E-mail address		OK
Gender		OK

By clicking the **continue** button below, you acknowledge that your information as provided will be forwarded to the third party that provides this service.

Please note that the additional information you provide in the upcoming process will be used by the third party for the sole purpose of verification of information. We will not receive any of the additional information.

Continue with the verification process.

FIG. 9

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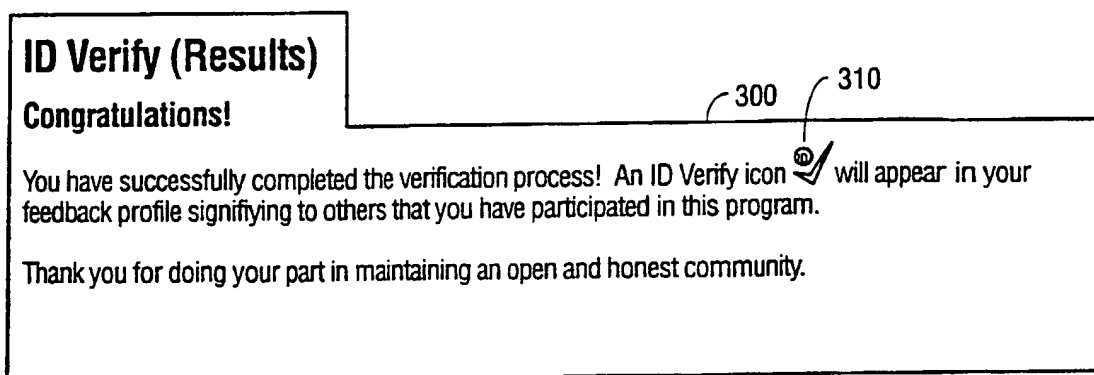


FIG. 10

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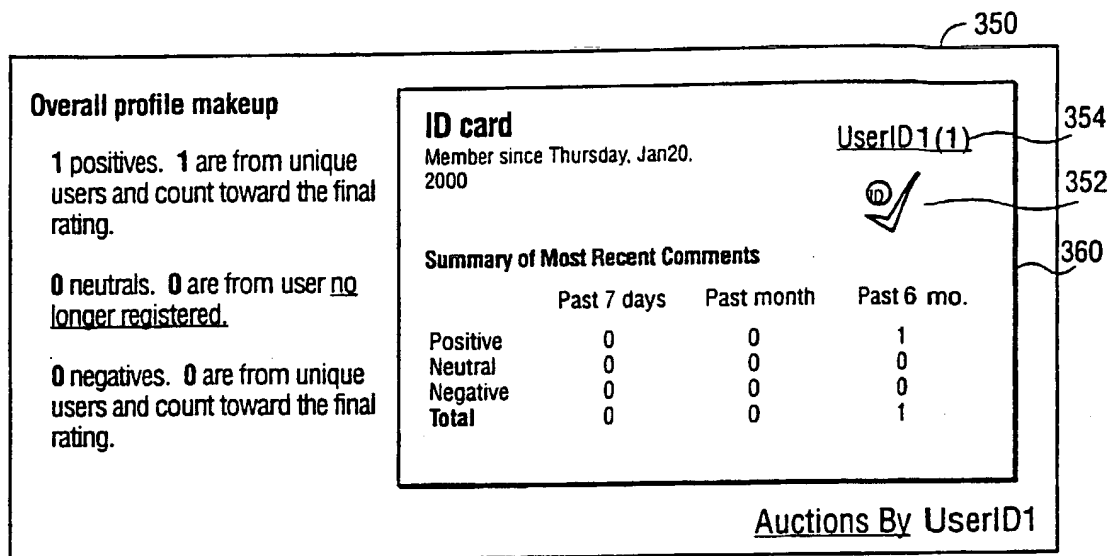


FIG. 11

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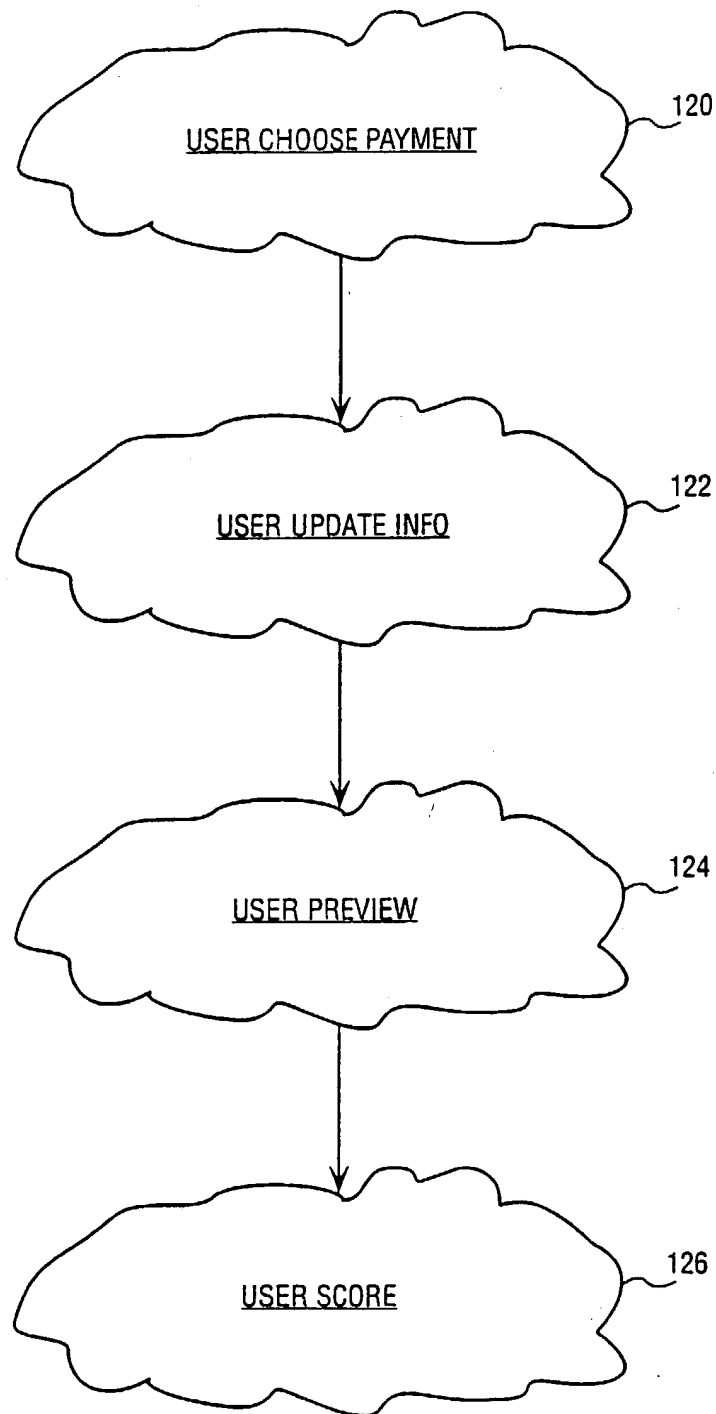


FIG. 12

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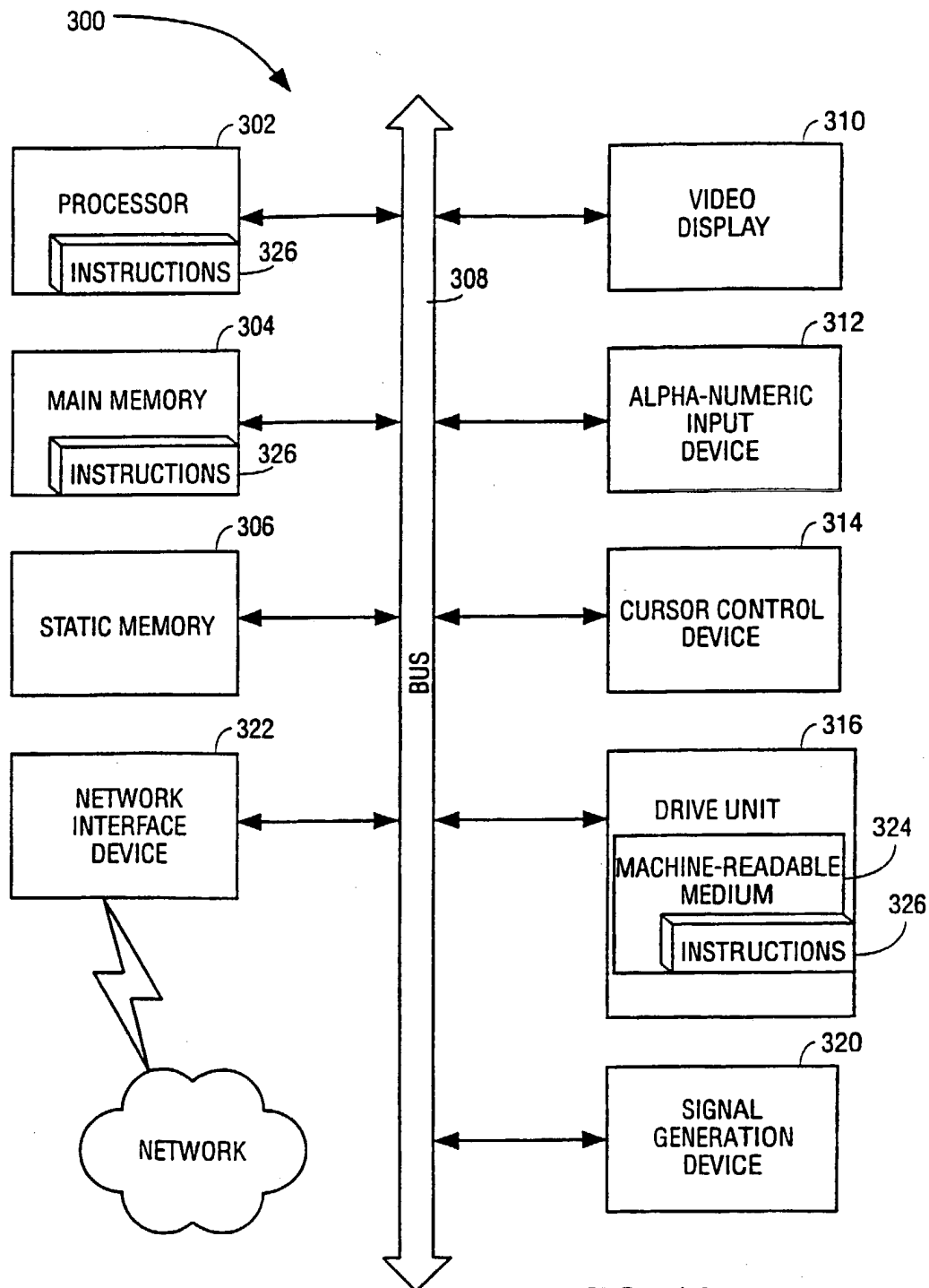


FIG. 13

INTERNATIONAL SEARCH REPORT

International application No
PCT/US00/32088

A. CLASSIFICATION OF SUBJECT MATTER														
IPC(7) : G06F 17/60 US CL : 705/18 According to International Patent Classification (IPC) or to both national classification and IPC														
B. FIELDS SEARCHED														
Minimum documentation searched (classification system followed by classification symbols) U.S. : 705/18														
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched														
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EAST search terms "identity verification"														
C. DOCUMENTS CONSIDERED TO BE RELEVANT														
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.												
Y	US 5,485,510 A (Colbert) 16 January 1996 (16-01-1996), the entire document.	1-18												
Y	US 5,657,389 A (Houvener) 12 August 1997 (12-08-1997), the entire document.	1-18												
Y	US 5,771,291 A (Newton et al.) 23 June 1998 (23-06-1998), the entire document.	1-18												
Y	US 5,872,848 A (Romney et al.) 16 February 1999 (16-02-1999), the entire document.	1-18												
Y	US 5,922,074 A (Richard et al.) 13 July 1999 (13-07-1999), the entire document	1-18												
Y, P	US 6,035,402 A (Vaeth et al.) 07 March 2000 (07-03-2000), the entire document.	1-18												
<input checked="" type="checkbox"/> Further documents are listed in the continuation of Box C. <input type="checkbox"/> See patent family annex.														
<table border="0"> <tr> <td>* Special categories of cited documents:</td> <td>*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</td> </tr> <tr> <td>*A* document defining the general state of the art which is not considered to be of particular relevance</td> <td>*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</td> </tr> <tr> <td>*E* earlier document published on or after the international filing date</td> <td>*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art</td> </tr> <tr> <td>*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</td> <td>*Z* document member of the same patent family</td> </tr> <tr> <td>*O* document referring to an oral disclosure, use, exhibition or other means</td> <td></td> </tr> <tr> <td>*P* document published prior to the international filing date but later than the priority date claimed</td> <td></td> </tr> </table>			* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention	*A* document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone	*E* earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art	*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*Z* document member of the same patent family	*O* document referring to an oral disclosure, use, exhibition or other means		*P* document published prior to the international filing date but later than the priority date claimed	
* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention													
A document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone													
E earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art													
L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*Z* document member of the same patent family													
O document referring to an oral disclosure, use, exhibition or other means														
P document published prior to the international filing date but later than the priority date claimed														
Date of the actual completion of the international search 08 MARCH 2001		Date of mailing of the international search report 04 APR 2001												
Name and mailing address of the ISA-US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230		Authorized officer KENNETH R. RICE <i>Diane Smith f</i> Telephone No. (703) 305-3900												

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US00/32088

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y, P	US 6,104,815 A (Alcorn et al.) 15 August 2000 (15-08-2000), the entire document	1-18